

Plug-Ins for the JACoW/Oracle Database

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- Objectives
- Preliminary Outline of Plug-Ins with Examples
- Status
- Problem Areas

- To Design and Implement a "turn-key" Oracle Database primarily for Scientific Programme Management
- To Develop and Maintain two Plug-Ins for the Oracle Programme Management Database, to be extended if desirable to Delegate Registration, concerning:
 - "Institutes" or "Affiliations",
 - "Contributors" or "Individuals" (Profiles)

in order to standardize data entry previously made by individuals, and to avoid extensive editing by the Conference Staff.

When authors submit abstracts, the data is used for several different purposes in the immediate, middle and long term futures, for example:

- *Publication of the contribution on the web*
 - *Composed of the title, and the calculation field which groups all co-authors and affiliations*
- *Production of an abstracts brochure*
 - *As for above, but including the full text of the abstract*
- *Production of a conference programme booklet*
 - *As for above requiring the title and the calculation field listing authors and their affiliations*
- *Production of a Table of Contents for the above*
 - *Idem*

.....



Boundary conditions cont'd.



- *Production of an Authors Index for the above*
 - *Requiring names and initials of all co-authors*
- *Production of Mailing lists (electronic and surface) for future distributions*
 - *Requiring names and mailing addresses*
 - *Requiring names and e-mail addresses*



The "Institutes" Plug-In



The Institutes or Affiliations Plug-In is "owned" by the Plug-In Manager. A new "individual" or "profile" creator (see later) may "suggest" and/or "enter" a **new** institute or affiliation, to be approved by the Plug-In Manager. The Institutes Plug-In should contain information, such as:

- | | |
|--------------------------------------|-----------------|
| Acronym | Country Code |
| Institute Name (or University) | Postal Code |
| Faculty (or Institute or Laboratory) | Zipcode |
| Department (or Division) | Town |
| Address fields (3) | State |
| POB | Country in full |
| Unique Identifier | |

A University Laboratory

Acronym:

LLNL

University or Institute:

University of California

Faculty/Inst. 2

Lawrence Livermore National Laboratory

Department

Department of Physics

Address Fields (3)

POB

Country:

USA

Postal Code:

Town

Livermore

Zipcode

CA 94550

Country in full

United States of America

A Laboratory

Acronym:	CERN
University or Institute:	European Laboratory for Nuclear Research
Faculty/Inst. 2	
Department	AB Division
Address Fields (3)	
POB	
Country Code:	CH
Postal Code:	1211
Town	Geneva
Zipcode	23
Country in full	Switzerland

A University/Laboratory/Facility/Project

Acronym:	SOLEIL
University or Institute:	Centre Universitaire Paris-Sud
Faculty/Inst. 2	Synchrotron SOLEIL
Department	Sources
Address Fields (3)	Centre d'Orsay
POB	
Country:	France
Postal Code:	91898
Town	Orsay
Zipcode	
Country in full	France

The Individuals Plug-In or "Profile", is "owned" by the Plug-In Manager, "created and/or modified" by the "individual", is password protected, and should contain "personal" information such as:

- Title (Ms, Mr., Mrs., Dr., Professor) Field of interest, possibly by keyword
- First Name(s) EPS/APS Membership Number
- Initials
- Family Name
- Position (Director, Division Leader)
- Preferred way of writing name
- E-mail, telephone, fax, Mailstop
- An "institute" (selected from the "Institutes" Plug-In) or "new" institute
- A Preferred acronym or institute name (possibility for "dual" affiliations)
- A unique identifier attributed automatically by the Database



Example of Fields



Title:	Dr.
First Name(s):	Alfredo
Initial(s)s:	A.U.
Family Name:	Luccio
Preferred way of writing name:	Alfredo U. Luccio
Position (Director, Division Leader):	
Email:	luccio@bnldag.ags.bnl.gov
Telephone:	+001 516 344 76 99
Fax:	+001 516 344 59 54
Mailstop:	
Institute (acronym, name, un. Ident):	BNL



Title: Dr.
First Name(s): John
Initial(s)s: J.M.
Family Name: Jowett
Preferred way of writing name: John M. Jowett
Position (Director, Division Leader):
Email: John.Jowett@cern.ch
Telephone: +41 22 767 6643
Fax:
Mailstop:
Institute (acronym, name, un. Ident): CERN

- Two Plug-Ins based on EPAC FileMakerPro Databases have been reviewed and corrected. They contain currently:
 - Individuals: 2497 records
 - Institutes: 496 records

with the following breakdowns:



No. Individuals per Country



Algeria	1	Germany	313	Slovak Rep.	3
Armenia	17	Greece	7	Slovenia	1
Austria	8	India	3	South Africa	4
Belarus	1	Iran	1	Spain	27
Belgium	14	Israel	4	Sweden	52
Brazil	22	Italy	149	Switzerland	236
Bulgaria	5	Japan	244	Taiwan	36
Canada	42	Norway	1	The Netherlands	23
China	31	Poland	16	Turkey	4
Colombia	2	Portugal	2	Ukraine	49
Czech Republic	2	Rep. Kazakhstan	3	UK	140
Denmark	6	Rep. Korea	33	USA	440
Egypt	1	Romania	16	Uzbekistan	1
Finland	3	Russia	332	Yugoslavia	13
France	183	Scotland	1		



Institutes per Country



Algeria	1	Germany	55	Russia	33
Armenia	1	Greece	4	Saudi Arabia	1
Austria	16	Hungary	4	Scotland	1
Belarus	2	India	3	Singapore	1
Belgium	14	Iran	1	Slovak Republic	1
Brazil	8	Israel	4	Slovakia	4
Bulgaria	3	Italy	46	Slovenia	1
Canada	20	Japan	37	South Africa	7
Colombia	1	Kazakhstan	1	Sweden	11
Czech Republic	6	Norway	3	Switzerland	6
Denmark	6	Pakistan	1	Taiwan	2
Egypt	1	PLC (China)	15	The Netherlands	12
Finland	5	Poland	4	Turkey	1
France	61	Rep. Kazakhstan	1	United Kingdom	20
Rep. Korea	6	Romania	8	United States	47
				Yugoslavia	2

- Three main areas:
 - Calculation Field for Co-authors and Affiliations
 - Names of authors, preferred and forced way of writing names, special characters, etc
 - Special or accented Characters

A simple (fictitious) example is the following:

*J. Velasco, A. Faus-Golfe, IFIC, Valencia; M. Haguenuer, J. Straw,
Ecole Polytechnique, Palaiseau*

Containing the following fields:

Initials, Last Name, Acronym / Institute Name, Town

The aim is to identify co-authors from the same institute so that they can be grouped together

Correct

J. Velasco, A. Faus-Golfe, IFIC, Valencia; M. Haguenuer, J. Straw, Ecole Polytechnique, Palaiseau

Incorrect

J. Velasco, IFIC, Valencia; A. Faus-Golfe, Istituto di Fisica, Valencia; M. Haguenuer, LPMI, Palaiseau; J. Straw, Ecole Polytechnique, Palaiseau

What went wrong:

The primary author, J. Velasco, entered an acronym for his institute when creating his account, but when entering the names of co-authors, entered an institute name instead of an acronym for the institute of his colleague A. Faus-Golfe.

Idem for the institutes of Haguenuer and Straw who are in fact at the same institute.

This problem could be solved by:

- Using a unique identifier for the affiliation instead of the contents of the acronym/institute field.*
- Forcing contributors to select an affiliation from the "Institutes" Plug-In.*

Any "new" affiliations "proposed" by authors/contributors should trigger a request to be "accepted" by the Plug-In Manager - implying that the conference programme database is connected to the centrally maintained Institutes Plug-In, that it is not to a copy of the Plug-In owned by the conference organiser.....????

Likewise, if the "Individual" or "Profile" information contains a unique identifier for the Institute, at some point this might also be tied in to co-author entry to ensure that if an "individual" is known, then the unique identifier of the institute is entered automatically????

Names of authors (from "Individuals" or "Profiles") are required principally for the calculation field for the contributions, and for the authors index.

Based on data entry by primary author:

<i>Initials:</i>	<i>A.U.</i>
<i>First Name:</i>	<i>Alfredo</i>
<i>Last Name:</i>	<i>Luccio</i>
<i>Preferred way of writing:</i>	<i>Alfredo U. Luccio</i>
<i>Calculated:</i>	<i>A.U. Luccio (Initials + Last name)</i>

Since it is not possible to "calculate" Alfredo U. Luccio, the "preferred" field is necessary. The conference organisers can decide which method applies where: I.e. A.U. Luccio in the Authors Index and as co-author in the calculated field, Alfredo U. Luccio for instance for an oral presentation.

When data is entered by primary authors for their co-authors, perhaps unaware of the "preferred" fashion, a prompt proposing same or similar names from "Individuals", tied to a unique identifier could solve the problem.

Question: To ensure entry/maintenance into/of "Profiles"/"Individuals", should creation/entry of "new" or "unknown" authors/co-authors trigger a link to "Profiles"/"Individuals" with request to create/update?

Names of primary and co-authors need to be sorted into alphabetical order for:

- The Calculation Field
- The Authors Index

Sorting on the "Last Name" field can result in some problems, for example:

- Because of the special character "ö", Nölle, D. gets sorted "automatically" at the very end of the "N's", after Novokhatski, A. instead of after Nolden, F.
- By the same token, Österdahl, F. gets sorted at the very end of the "O's"
- And again, the "von", "van der" etc. get sorted under "v" which can be correct for German names, but incorrect for Dutch ones

- With a little more work based on decisions at this meeting, the Plug-Ins in FileMakerPro format could be
 - transferred to Oracle by the middle of the year, (the question of the inclusion of PAC'03 data needs to be discussed)
 - "announced", in say September, and
 - ready for "inspection", "correction", etc. by Individuals, prior to
 - abstract submission for EPAC'04 from December 2003 (deadline for Abstracts February 2004)